



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

In Re Application of:

Starnier, et al.

Serial No.: 09/927,193

Filed: 8/10/01

For: A System and Method for Capturing an Image

Group Art Unit: TBA

Examiner: TBA

Docket No.: 062004-1800



INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

This information disclosure statement is filed in accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, and specifically:

- ☒ under 37 CFR 1.97(b), or
(within Three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:
☐ Statement Under 37 C.F.R. 1.97(e), or
☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97(b) time period, but before the final office action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with a:
☐ Statement under 37 CFR 1.97(e), and
☐ a \$180.00 petition fee set forth in 37 CFR 1.17(p).
(Filed after final office action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Enclosed is a check in the amount of \$ _____. Please charge \$ _____ to deposit account _____. At any time during the pendency of this application, please charge any fees required to Deposit Account _____ pursuant to 37 CFR 1.25. The Commissioner is hereby requested to credit any overpayment to Deposit Account No. 20-0778.

- ☒ Applicant(s) submit herewith *Form PTO 1449 - Information Disclosure Citation* together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may or may not be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56. As required by 37 C.F.R. §1.98(a), a legible copy of each document is provided.
- ☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on the form PTO 1449 and is enclosed herewith.

The following rights are reserved by the Applicant(s): the right to establish the patentability of the claimed invention over any of the listed documents should they be applied as reference, and/or the right to prove that some of these documents may not be prior art, and/or the right to prove that some of these documents may not be enabling for the teachings they purport to offer.

This statement should not be construed as a representation that an exhaustive search has been made, or that information more material to the examination of the present application does not exist. The Examiner is specifically requested not to rely solely on the materials submitted herewith. The Examiner is requested to conduct an independent and thorough review of the documents, and to form independent opinions as to their significance.

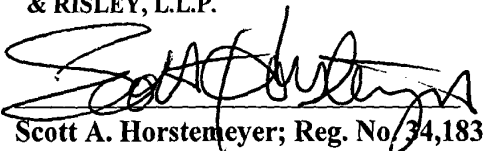
It should be noted that applicants comply with their duty of candor since the applicants disclose a document Thad Starner, Wearable Computing and Contextual Awareness, PhD thesis, MIT Media Laboratory, April 30, 1999 <http://www.gvu.gatech.edu/ccg/publications/starner-phd/> and the document is cumulative of the document L. Baum, An inequality and associated maximization technique in statistical estimation of probabilistic functions of Markov processes. *Inequalities*, 3:1-8, 1972. A document H. Hefter, V. Homberg, and H. J. Freund, Quantitative analysis of voluntary and involuntary motor phenomena in parkinson's disease, In H. Przuntek and P. Riederer, editors, *Early Diagnosis and Preventative Therapy in Parkinson's Disease*. Springer-Verlag Wien, New York, NY, 1989 is cumulative of the document R. J. Elble and W. C. Koller. *Tremor*, Johns Hopkins UP, Baltimore, MD. 1990. The document Thad Starner, Wearable Computing and Contextual Awareness. PhD thesis, MIT Media Laboratory, April 30, 1999 <http://www.gvu.gatech.edu/ccg/publications/starner-phd/> is cumulative of the document X. Huang, Y. Ariki, and M.A. Jack, *Hidden Markov Models for Speech Recognition*, Edinburgh University Press, 1990. The document Quinn, Niall, Progress in functional neurosurgery for Parkinson's Disease, *Lancet* 1999; 354 (9191): 1658-1659, Nov 13 1999 is cumulative of the document J. Hubble, K. Busenbark and S. Wilkinson. Deep brain stimulation for essential tremor, In *Neurology*, volume 46, pages 1150-1153, 1996. The document C. Kidd and K. Lyons, Widespread Easy and Subtle Tracking with Wireless Identification Networkless Devices -- WEST WIND: an Environmental Tracking System, October 2000 is cumulative of the document C. Kidd and K. Lyons, West Wind, In *Submitted to ISWC*, Atlanta, GA, October 2000. The document Thad Starner, Wearable Computing and Contextual Awareness, PhD thesis, MIT Media Laboratory. April 30, 1999 <http://www.gvu.gatech.edu/ccg/publications/starner-phd/> is cumulative of the document L. R. Rabiner and B. H. Juang, An introduction to hidden Markov models. *IEEE ASSP Magazine*, pages 4-16, January 1986. The document Yasunobu Yamauchi, Gesture-Based Ping-Pong Game Using Real-Time Depth-Image Input Device, *International Conference on Computer Graphics and Interactive Techniques*, New Orleans, LA, July 23-28 is cumulative of the document Toshiba, Toshiba's motion processor recognizes gestures in real time, Available at <http://www.toshiba.com/news/980715.htm>, July 1998. The document Thad Starner, Wearable Computing and Contextual Awareness. PhD thesis, MIT Media Laboratory, April 30, 1999 <http://www.gvu.gatech.edu/ccg/publications/starner-phd/> is cumulative of the document Charles W. Therrien, "Decision Estimation and Classification," John Wiley and Sons, Inc., 1989. The document Thad Starner, Wearable Computing and Contextual Awareness, PhD thesis, MIT Media Laboratory, April 30, 1999 <http://www.gvu.gatech.edu/ccg/publications/starner-phd/> is cumulative of the document K. P. Horn Berthold, *Robot Vision*, THE MIT Press, 1986.

It is requested that the information disclosed herein be made of record in this application and that the Examiner initial and return a copy of the enclosed PTO-1449 to indicate the documents have been considered.

Respectfully Submitted,

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& RISLEY, L.L.P.

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CERTIFIED MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as "First Class Mail," in an envelope addressed to: Assistant Commissioner of Patents and Trademarks, Washington, D.C.

20231 on 11/30/01


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Form PTO-1449

Attorney Docket No.
062004-1800Serial No.
09/927,193**INFORMATION DISCLOSURE CITATION**Applicant
Starner, et al.Filing Date
8/10/01Group
TBA

DEC 12 2001 (Use several sheets if necessary)

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
		4,988,981	1/29/91	Zimmerman, et al.	340	709	
		5,047,952	9/10/91	Kramer, et al.	364	513.5	
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	D.	5,252,951	10/12/93	Tannenbaum, et al.	345	156	
	E.	5,319,747	6/7/94	Gerrissen, et al.	395	155	
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HH.	S. Young, <i>HTK: Hidden Markov Model Toolkit V1.5</i> . Cambridge Univ. Eng. Dept. Speech Group and Entropic Research Lab, Inc., Washington, DC 1993.	
II.	D. M. Roy, M. Panayi, R. Erenshteyn, R. Foulds, and R. Fawcus. Gestural human-machine interaction for people with severe speech and motor impairment due to cerebral palsy. In <i>Conference on Human Factors in Computing Systems</i> , Boston, MA, April 1994.	
JJ.	Thad Starner, Steve Mann, Bradley Rhodes, Jeffrey Lavine, Jennifer Healey, Dane Kirsch, Rosalind W. Picard, Alex Pentland, Augmented Reality Through Wearable Computing. 1997.	
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UU.	C. Kidd and K. Lyons, Widespread Easy and Subtle Tracking with Wireless Identification Networkless Devices – WEST WIND: an Environmental Tracking System, October 2000	

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

EXAMINER'S SIGNATURE:	DATE CONSIDERED:
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